

1. (Currently Amended) A burner for a heat generator comprising:
_____ an outlet having an inner surface, the outlet connectable to a combustion chamber;
_____ wherein at least part of ~~an~~ the inner surface of the outlet ~~is provided with~~ comprises
corrugations ~~which are~~ adapted to facilitate the production of axial vorticity in the region of the
outlet.
2. (Original) A burner as claimed in Claim 1, wherein the corrugations are provided
over substantially all of the inner surface of the outlet.
3. (Currently Amended) A burner as claimed in Claim 2 ~~or 3~~, wherein the outlet is
~~in the form of~~ comprises a nozzle.
4. (Currently Amended) A burner as claimed in ~~any one of the preceding~~
~~claims~~ Claim 1, wherein the corrugations ~~are in the form of~~ comprise lobes.
5. (Currently Amended) A burner as claimed in ~~any one of the Claims 1 to 3~~ Claim
1, wherein the corrugations are rectangular ~~or triangular~~ in cross-section.
6. (Currently Amended) A burner as claimed in ~~any one of the preceding~~
~~claims~~ Claim 1, wherein the ratio of the length to the depth of the corrugations is from 1:1 to
10:1.
7. (Currently Amended) A burner as claimed in Claim 6, wherein the ~~ratio~~ ratio of
the length to the depth of the corrugations is from 1:1 to 3:1.
8. (Currently Amended) A burner as claimed in ~~any one of the preceding~~
~~claims~~ Claim 1, further comprising:
_____ a mixing section; and
_____ wherein the corrugations extend over at least 20% of a ~~the~~ mixing section of the burner.
9. (Canceled)

10. (New) A burner as claimed in Claim 1, wherein the corrugations are triangular in cross-section.